

***Mycobacterium tuberculosis*, Strain 95-2451**

Catalog No. NR-30601

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Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain 95-2451 was isolated between 1995 and 2000 from human sputum from an HIV-negative patient infected with pulmonary tuberculosis in North America. Strain 95-2451 was deposited as a multi-drug sensitive (MDS) strain of tuberculosis with sensitivity to rifampicin and isoniazid.

Lot¹: 61255107

Manufacturing Date: 19OCT2012

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis² Cellular morphology Colony morphology ³ Growth rate Growth at 37°C Acid-fast stain Pigmentation in the dark (Scotochromogen) Photoinduction for 1 hour (Photochromogen) Nonchromogen (no pigment)	Gram-positive rods Report results ≥ 7 days Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment)	Gram-positive rods Circular, flat, rough and white (Figure 1) ≥ 7 days Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment)
Genotypic Analysis Sequencing of Heat Shock Protein 65 gene (~ 420 base pairs)	Consistent with <i>M. tuberculosis</i>	Consistent with <i>M. tuberculosis</i> ⁴
Purity (post-freeze)⁵	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)³	Growth	Growth

¹NR-30601 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and grown for 22 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles which were grown for 14 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

²Information on *Mycobacterium* testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." [Biochemical Testing](http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria). (2012) Jose C. Jimenez-Lopez (Ed.), InTech, <http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." *Int. J. Syst. Bacteriol.* 42 (1992): 315-323. PubMed: 1581193.

³25 days at 37°C in an aerobic atmosphere with 5%CO₂ on Middlebrook 7H10 Agar with OADC enrichment

⁴Also consistent with *M. africanum*, *M. bovis*, *M. canettii* and *M. microti*

⁵Purity of this lot was assessed for 30 days at 37°C in an aerobic atmosphere with 5% CO₂ on Middlebrook 7H10 agar with OADC enrichment.

Figure 1: Colony Morphology



Date: 05 NOV 2015

Signature: 

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